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## LICHENS OF THE LAKE GEORGE REGION

(Concluded)

STEWART H. BURNHAM

165. *Lecanora atrynea* (Ach.) Nyl. R. C. Burnham's pasture on sandstone, west of Vaughns schoolhouse, Aug. 6, 1918; determined by Mr. Merrill who says, "I feel sure that we must call this *Lecanora atrynea*. It has the thallus of *Lecanora coilocarpa* (Ach.) Nyl., while the apothecia are nearer those of *L. atrynea*. The latter was unknown in American lists until my differentiation of the species some years ago."
166. *Lecanora cinerea* (L.) Sommf. Shushan on slate rocks, May 14, 1906; Peaked Rock, May 19, 1906; both collections determined by Dr. Fink. Haynes hill on calcareous rocks, Oct. 14, 1914; Sugar Loaf Mt. on granitic rocks, Nov. 13, 1915; both collections determined by Mr. Merrill. Crescent on rocks, May 30, 1906.
167. *Lecanora frustulosa* (Dicks.) Ach. Sugar Loaf Mt. on granitic rocks, Nov. 13, 1915; determined by Mr. Merrill who says, "I collected this in Maine and have numerous specimens from the west, but yours is the first to be sent me from the east."
168. *Lecanora laevata* (Ach.) Nyl. Shushan on rocks, Apr. 5, 1907 (Dobbin); determined by Dr. Fink. (*Lecanora cinerea laevata* (Ach.) Tuck.).
169. *Lecanora pallida* (Schreb.) Schaer. Shushan on old birch trunks (Dobbin), Rich's swamp on maple, and bog north of Clarks Pond. Black Mt. on trunks of *Abies balsamea* and *Pyrus americana*, Aug. 19, 1909; determined by Dr. Riddle. Kingsbury to Fort Ann on *Acer rubrum*, Aug. 19, 1911; west of Tripoli schoolhouse on trunks of *Juglans cinerea*, Dec. 5, 1914; the last two collections determined by Mr. Merrill.
170. *Lecanora polytropa* (Ehrh.) Schaer. Shushan on rocks, Apr. 3, 1907 (Dobbin) determined by Dr. Fink. (*Lecanora varia polytropa* (Ehrh.) Nyl.).
171. *Lecanora rubina* (Vill.) Ach. Calcareous rocks at Vaughns, Aug. 23, 1906; determined by Dr. Fink, a specimen in N. Y. State Herbarium. North-west Hartford and rocks south of Copeland hill.
172. *Lecanora rubina heteromorpha* Ach. Peaked Rock on granitic rocks, June 15, 1907; determined by Dr. Fink.
173. *Lecanora saxicola* (Poll.) Ach. Granitic rocks. Talus, Diameter precipice, South Bay, Aug. 21, 1906; Peaked Rock, May 19, 1906. (*Lecanora muralis saxicola* (Poll.) Tuck.).
174. *Lecanora subfusca* (L.) Ach. On living trunks of trees; abundant. Collections have been determined by Dr. Fink, Mr. Merrill, and the late Dr. Riddle.
175. *Lecanora subfusca argentata* Ach. E. Galway on trunks of *Fagus grandifolia* (Burt).

176. *Lecanora subfusca allophana* Ach. Shushan on bark of ash trees, May 20, 1907; determined by Dr. Fink. West of Tripoli schoolhouse on trunks of *Juglans cinerea* and *Betula lutea*, Dec. 5, 1914; determined by Mr. Merrill.
177. *Lecanora varia* (Ehrh.) Ach. Hague on *Tsuga canadensis*; southern W. Fort Ann on *Juniperus communis* v. *depressa*, *Pinus Strobus*, *Thuja occidentalis* (determined by Mr. Merrill), and *Betula lenta*. Rich's swamp near Shushan on *Pinus Strobus*.
178. *Ochrolechia pallescens* (L.) Mass. Fort Edward (Howe); near Tripoli on trunks of *Pinus Strobus*, *Juglans cinerea*, and *Betula lutea*; Vaughns on trunks of *Acer saccharum*; bog north of Clarks Pond on trees. Several collections have been determined by Mr. Merrill. (*Lecanora pallescens* (L.) Schaer.).
179. *Ochrolechia tartarea* (L.) Mass. Dresden (Peck); Peaked Rock (Dobbin), determined by Dr. Fink; talus, Diameter precipice, South Bay; on mossy rocks, northwest Hartford; Vaughns on trunks of trees and stonewalls, determined by Mr. Merrill.
180. ***Haematomma elatinum ochrophaeum*** (Tuck.) Merrill & Burnh., n. comb. Shushan on bark, April 1908; determined by Dr. Fink. (*Lecanora elatina ochrophaea* Tuck.).
181. *Candelariella vitellina* (Ehrh.) Müll. Arg. Shushan on rocks, May 14, 1906 (Dobbin); Vaughns on boulders and flinty pieces of rock in limestone, Dec. 1, 1914, March 25 & Apr. 7, 1915. Specimens have been determined by Mr. Merrill. (*Placodium viteilinum* (Ehrh.) Hepp).
182. *Candelaria concolor* (Dicks.) Wainio. E. Galway (Burt); Shushan on rocks and trees (Dobbin); northwest Hartford on bark of *Carya ovata*; southern W. Fort Ann on fallen trunks of *Juglans cinerea* (determined by Mr. Merrill) and trunk of *Populus*; Vaughns on trunks of *Ulmus americana* (determined by Mr. Merrill) and woodbine (*Psedera*). (*Teloschistes concolor* (Dicks.) Tuck.).
183. ***Candelaria concolor effusa*** (Tuck.) Merrill & Burnh., n. comb. Stumps of *Ulmus americana*, west of W. Fort Ann P. O., May 21, 1916; determined by Mr. Merrill. (*Theloschistes concolor effusus* Tuck.).
184. *Parmeliopsis ambigua* (Wulf.) Nyl. Marsh north of Glen Lake on *Kalmia angustifolia*, Aug. 22, 1906; determined by Dr. Fink who says, "sterile and distribution unusual."
185. *Parmeliopsis diffusa* (Weber) Riddle. Marsh north of Glen Lake on *Picea mariana* and *Chamaedaphne calyculata* with *Cetraria Pinastri*, Sept. 20 & Oct. 31, 1915; determined by Mr. Merrill. Small gray plants. (*Parmelia hyperopta* Ach.).
186. *Parmeliopsis placorodia* (Ach.) Nyl. West of Tripoli schoolhouse on *Ostrya virginiana*, Apr. 16, 1916; determined by Mr. Merrill. (*Parmelia placorodia* Ach.).

187. *Parmelia caperata* (L.) Ach. Abundant on trees and rocks.
188. *Parmelia cetrata* Ach. Rich's swamp near Shushan on elm and maple trunks, June 5, 1907 (Dobbin); determined by Dr. Fink.
189. *Parmelia conspersa* (Ehrh.) Ach. Very abundant on rocks. It is rarely found on trees. Sometimes the center is quite isidiophorus; and loosely attached plants on boulders are met with, such plants rarely if ever in fruit.
190. *Parmelia crinita pilosella* (Hue) Merrill. Shushan on *Juglans cinerea*, June 23, 1907 (Dobbin); bog north of Clarks Pond, on trees, Sept. 11, 1909.
191. *Parmelia dubia* (Wulf.) Schaer. Fort Edward (Howe), in N. Y. State Cab. Rep. 22: 62. 1869; Shushan on trunks of maple (Dobbin), verified by Dr. Fink. Hague; southern W. Fort Ann on rocks and trees; Vaughns on frondose trees. (*Parmelia Borreri* Turn.).
192. *Parmelia exasperata* (Ach.) Nyl. E. Galway on trunks of *Pyrus Malus* and *Acer* (Burt), specimens are in the N. Y. State Herbarium; Barber trail, Black Mt., on birch, Aug. 19, 1909; Rich's swamp near Shushan, June 16, 1907. (*Parmelia olivacea aspidota* Ach.).
193. *Parmelia furfuracea* (L.) Ach. Marsh north of Glen Lake on *Picea mariana*, Sept. 20, 1916, verified by Mr. Merrill; Mud Pond marsh south of Glen Lake, Aug. 23, 1907 on *Picea mariana*; Rich's swamp near Shushan, May 20, 1906. This has not been found on *Larix laricina* in these marshes. (*Evernia furfuracea* (L.) Mann.).
194. *Parmelia furfuracea* *Cladonia* (Tuck.) Howe. Podunk Pond marsh on *Picea mariana*, Oct. 17, 1900; determined by Dr. Eckfeldt.
195. *Parmelia olivacea* (L.) Ach. On trees, especially smooth-barked trunks, and rocks; common.
196. *Parmelia perlata* (L.) Ach. On rocks in upland and undisturbed regions; common. It is also found in trunks of trees.
197. *Parmelia pertusa* (Schränk.) Schaer. On bark of *Juglans cinerea* at Shushan, April. 9, 1906, (Dobbin); talus, Diameter Precipice, South Bay, Aug. 21, 1906.
198. *Parmelia physodes* (L.) Ach. On trees, especially coniferous, but sometimes occurs on rocks. It is a common lichen on trunks of *Picea mariana* and *Larix laricina* in sphagnum marshes.
199. *Parmelia physodes vittata* Ach. Shushan in Rich's swamp, Nov. 1913 (Dobbin); determined by Dr. H. D. House.
200. *Parmelia prolixa panniformis* Nyl. Talus, Diameter Precipice, South Bay, Aug. 21, 1906; determined by Dr. Fink. (*Parmelia olivacea panniformis* Nyl.).
201. *Parmelia rudecta* Ach. Abundant on rocks and trees. (*Parmelia Borreri rudecta* Tuck.).
202. *Parmelia saxatilis* (L.) Ach. On trees and rocks; abundant. Specimens have also been found on *Gyrophora Dillenii*.
203. *Parmelia saxatilis furfuracea* Schaer. E. Lake George marsh on *Picea mar-*

- iana*, Oct. 3, 1916, determined by Mr. Merrill. New Michigan Pond, "Talman marsh", June 2, 1917.
204. *Parmelia subaurifera* Nyl. Dead trunks of *Salix nigra*, N. Beaver creek, Vaughns, March 6, 1914; determined by Mr. Merrill as *Parmelia verrucifera* Nyl., which he says "is a good species, but they say in Europe that it is *P. subaurifera* in such examples as I send them."
205. *Parmelia sulcata* Tayl. Shushan on mosses, Apr. 27, 1907 (Dobbin); determined by Dr. Fink. West of Tripoli schoolhouse on *Pinus Strobus*; east of Thompson's gravel-bed; Shushan in Rich's swamp on maple, and fence-row at Clarks Pond on old pine stumps. (*Parmelia saxatilis sulcata* (Tayl.) Nyl.).
206. *Parmelia tiliacea* (Hoffm.) Ach. E. Galway (Burt); E. Lake George marsh on *Picea mariana*; Vaughns on willows, *Juglans cinerea*, *Ulmus americana*, and *Acer*; Rich's swamp near Shushan on maple.
207. *Parmelia tiliacea subquercifolia* (Hue) Merrill & Burnh., n. comb. Rich's swamp southwest of Shushan on *Acer*, March 1907 (Dobbin). (*Parmelia tiliacea sublaevigata* Nyl.). (*Parmelia subquercifolia* Hue).
208. *Parmelia tiliacea vicinior* (Hue) Merrill. On bark of *Pinus Strobus*, west of Tripoli schoolhouse, Jan. 29, 1915; determined by Mr. Merrill.
209. *Anzia colpodes* (Mx.) Stizenb. On trunks. Fort Ann (Peck). (*Parmelia colpodes* Mx.).
210. *Cetraria aurescens* Tuck. Shushan on coniferous wood, Apr. 22, 1907 (Dobbin).
211. *Cetraria islandica* (L.) Ach. R. C. Burnham's pasture on hummocks, west of Vaughns schoolhouse, Oct. 1913, & Sept., 1920—specimens are in the N. Y. State Herbarium. A few plants persisting at a low altitude.
212. *Cetraria lacunosa* Ach. On old coniferous trunks and branches and fences; not uncommon.
213. *Cetraria Oakesiana* Tuck. On coniferous trunks, specially *Tsuga canadensis*; it also is found on trunks of frondose trees and mossy rocks. It is somewhat widely distributed from Black Mt. to Peaked Rock near Shushan, but nowhere common.
214. *Cetraria Pinastri* (Scop.) S. F. Gray. In sphagnum marshes on *Picea mariana*, *Chamaedaphne calyculata*, and *Kalmia angustifolia*. Podunk Pond marsh, Oct. 17, 1899; determined by Dr. Eckfeldt as *Cetraria juniperina Pinastri* (Scop.) Ach. New Michigan Pond, "Talman marsh;" E. Lake George marsh; marshes north and south of Glen Lake; bog north of Clarks Pond.
215. *Nephromopsis ciliaris* (Ach.) Hue. On old coniferous trunks and branches and fences; not uncommon, and often found associated with *Cetraria lacunosa* in sphagnum marshes. It occurs rarely on wood of frondose species. (*Cetraria ciliaris* Ach.)

216. *Evernia prunastri* (L.) Ach. E. Galway on dead twigs of *Abies balsamea* and dead spruces (Burt); marshes at Glen Lake on *Picea mariana*; old hemlock board fence at Vaughns; Rich's swamp near Shushan on *Picea mariana*.
217. *Letharia thamnodes* (Flot.) Arn. Southern W. Fort Ann on dead *Pinus Strobus*; E. Lake George marsh; marshes at Glen Lake on *Larix laricina*, but little found on *Picea mariana*; Vaughns on *Juniperus communis* v. *depressa* and *Rhus typhina*. Several collections determined by Mr. Merrill. (*Evernia thamnodes* Flot.).
218. *Alectoria chalybeiformis* (L.) S. F. Gray. Old board and rail fences of coniferous wood; vicinity of Tripoli and at Vaughns. Marshes at Glen Lake on *Larix laricina* and *Picea mariana*; determined by Mr. Merrill. Peaked Rock on *Gyrophora Dillenii*.
219. *Alectoria jubata* (L.) Ach. Growing on coniferous wood and often associated with the preceding species at Glen Lake and near Tripoli. E. Lake George marsh on *Picea mariana*; determined by Mr. Merrill.
220. *Ramalina calicaris* (L.) Fr. E. Galway on maple bark (Burt), reported in THE BRYOLOGIST 17: 19. March, 1914. Ballston (Peck); southern W. Fort Ann on *Populus tremuloides* and *Ulmus americana*, determined by Mr. Merrill; Vaughns on *Salix nigra*. (Includes *Ramalina calicaris canaliculata* Fr.).
221. *Ramalina calicaris subampliata* Nyl. On trunks of *Juglans cinerea*, Pond Brook west of W. Fort Ann P. O., Dec. 13, 1914; N. Beaver Creek at Vaughns, on *Salix nigra* and *Ulmus americana*, March 6 & Apr. 7, 1914; determined by Mr. Merrill.
222. *Ramalina calicaris subfastigiata* Nyl. West of Tripoli in *Ostrya virginiana*, Apr. 12, 1916, and *Sassafras variifolium*, Nov. 7, 1915; Vaughns on *Rhus typhina*, Nov. 15, 1914; determined by Mr. Merrill.
223. *Ramalina farinacea* (L.) Ach. Dresden (Peck); Shushan on *Juglans cinerea*, Apr. 30, 1906 (Dobbin); rocks at old dam site west of W. Fort Ann P. O., May 31, 1914; cliff near summit of Peaked Mt., May 26, 1918; Vaughns on *Ulmus americana*, Dec. 6, 1914, determined by Mr. Merrill; Crescent on rocks, May 30, 1906; Peaked Rock, May 19, 1906. This species is usually found on rocks.
224. *Ramalina fastigiata* (Pers.) Ach. E. Galway (Burt), reported in THE BRYOLOGIST 17: 6. Jan. 1914; Shushan on *Juglans cinerea*, Apr. 30, 1906 (Dobbin); west of Tripoli on *Carya ovata*, Apr. 3, 1910.
225. *Usnea florida* (L.) Weber. Swamp north of Glen Lake on *Picea mariana*, Aug. 22, 1906; Rich's swamp near Shushan (Dobbin), Apr. 5, 1917. (Includes *Usnea barbata* (L.) Weber, in sense of Tuckerman).
226. *Usnea florida rubiginea* Mx. Associated with the species.
227. *Usnea hirta* (L.) Hoffm. Dead trees at E. Galway (Burt); old board fences at Shushan, May 7, 1906 (Dobbin); old hemlock board fence at Vaughns, July 6, 1907.

228. *Usnea plicata* (L.) Weber. Hills north of E. Galway (Burt); Podunk Pond marsh on *Picea mariana*, Oct. 17, 1899, determined by Dr. Eckfeldt.
229. *Usnea trichodea* Ach. Dead branches of *Picea mariana*, Mud Pond marsh south of Glen Lake, Aug. 23, 1907.
230. *Blastenia ferruginea* (Huds.) Arn. On trunks and rocks. Shushan, May 20, 1907 (Dobbin); determined by Dr. Fink. (*Placodium ferrugineum* (Huds.) Hepp).
231. *Caloplaca aurantiaca* (Lightf.) Th. Fr. Gansevoort (Peck); E. Galway (Burt); Shushan (Dobbin); Fort Ann on fences, Apr. 12, 1908; east of Tripoli on *Ulmus americana*, Apr. 10, 1914, determined by Mr. Merrill.
232. ***Caloplaca aurantiaca flavovirescens*** (Wulf.) Burnh., n. comb. Calcareous rocks, Bacon hill west of Fort Ann, Apr. 22, 1917; Haynes hill on calcareous rocks, Oct. 14, 1914; east of Tripoli schoolhouse on calcareous rocks, Nov. 12, 1914; these collections determined by Mr. Merrill. This is a common lichen on rocks and stone walls at Vaughns. (*Placodium aurantiacum erythrellum* (Ach.) Th. Fr.; *P. aurantiacum flavovirescens* (Wulf.) Hepp).
233. *Caloplaca cerina* (Hedw.) Zahlbr. On bark of *Fraxinus nigra* at Fort Edward (Howe); Shushan on trunks of living trees (Dobbin), determined by Dr. Fink. West of Tripoli schoolhouse on *Juglans cinerea*, Dec. 5, 1914; determined by Mr. Merrill. On trunks of *Carya ovata*, south of Vaughns schoolhouse, May 11, 1907.
234. ***Caloplaca cerina sideritis*** (Tuck.) Merrill & Burnh., n. comb. Shushan on slate rocks, May 14, 1906 (Dobbin); determined by Dr. Fink. (*Placodium cerinum sideritis* Tuck.).
235. *Caloplaca murora* (Hoffm.) Th. Fr. High Rock, Hulets Lg. (Jelliffe); Lake George, Sept. 1890 (Geo. L. Hawes, Esq.) in Jelliffe's herbarium.
236. *Culoplaca pyracea* (Ach.) Th. Fr. Down S. Beaver creek, east of Vaughns, on calcareous rocks, Nov. 15, 1914; calcareous rocks west of Vaughns schoolhouse, March 23, 1915; both collections determined by Mr. Merrill.
237. *Xanthoria lychnea* (Ach.) Th. Fr. Patten's Mills cemetery on *Ulmus americana*, Oct. 5, 1910; determined by Dr. Riddle. Specimen in N. Y. State Herbarium. (*Teloschistes lychnus* (Ach.) Tuck.).
238. *Xanthoria parietina* (L.) Th. Fr. On mossy stonewall, north of Vaughns, March 13, 1914; old marble tombstone in Welch Hollow cemetery Sept. 7, 1916; both collections determined by Mr. Merrill.
239. *Xanthoria polycarpa* (Ehrh.) Oliv. Shushan on *Betula lenta* (Dobbin); northwest Hartford on *Juglans cinerea*; near Tripoli and at Vaughns, *Populus candicans*, *Populus tremuloides*, and *Acer*; near Wiggins iron mine on *Populus tremuloides*, Nov. 22, 1915, determined by Mr. Merrill.

240. *Buellia colludens* (Nyl.) Tuck. Rocks in woods southeast of Tripoli, Dec. 2, 1914; determined by Mr. Merrill.
241. *Buellia disciformis* (Fr.) Mudd. Huletts Lg. (Jelliffe); E. Galway on *Fagus grandifolia* (Burt); Shushan on *Betula lenta*, Apr. 30, 1906 (Dobbin); Hague on *Tsuga canadensis*, Sept. 5, 1909; Black Mt. on *Abies balsamea*, Aug. 19, 1909, determined by Dr. Riddle; Kingsbury to Fort Ann on *Acer rubrum*, Aug. 19, 1911; west of Tripoli schoolhouse on *Pinus Strobus*, Dec. 2, 1916; the last two collections determined by Mr. Merrill. (Probably includes much formerly called *Buellia parasema* (Ach.) Koerb. which was a composite species.).
242. *Buellia spuria* (Schaer.) Koerb. Huletts Lg. (Jelliffe); calcareous rocks west of Vaughns schoolhouse, Dec. 1, 1914, determined by Mr. Merrill; Peaked Rock, on granitic rocks, May 19, 1906, determined by Dr. Fink.
243. *Rinodina oreina* (Ach.) Mass. Peaked Rock on granitic rocks, May 19, 1906 & June 15, 1907; determined by Dr. Fink and reported in N. Y. State Mus. Bull. 122: 24. 1908.
244. *Pyxine sorediata* (Ach.) Fr. Shushan on oak (Dobbin) and *Betula lenta*, Anaquassacook hills; northwest Hartford on calcareous rocks and *Betula lulea*; near Tripoli on *Juglans cinerea*, determined by Mr. Merrill; Vaughns on trunks of *Betula lulea*, *Crataegus* sp., and *Acer saccharum*.
245. *Physcia elaeina* (Sm.) A. L. Smith. Bark of *Acer saccharum*, Vaughns schoolhouse woods, May 11, 1907; determined by Dr. Fink. Easily overlooked. (*Physcia adglutinata* (Flk.) Nyl.).
246. ***Physcia fusca detonsa*** (Fr.) Burnh., n. comb. Shushan on rocks (Dobbin), determined by Dr. Fink; northwest Hartford on calcareous rocks; southern W. Fort Ann on rocks; Vaughns and vicinity in mossy rocks and trunks of *Acer saccharum*, determined by Mr. Merrill. (*Physcia aquila detonsa* (Fr.) Tuck.).
247. *Physcia grisea* (Lam.) Zahlbr. Old trunk of *Pyrus Malus* at Vaughns, March 5, 1914; determined by Mr. Merrill. (*Physcia pityrea* (Ach.) Nyl.).
248. *Physcia lilhotea* Nyl. Mossy rocks, usually limestone; southern W. Fort Ann and at Vaughns. Specimens have been determined by Mr. Merrill.
249. *Physcia orbicularis* (Neck.) Dalla Torre & Sarnth. This is not uncommon on mossy rocks and trunks of trees. Specimens have been determined by Dr. Fink. (*Physcia obscura* (Ehrh.) Nyl.).
250. ***Physcia orbicularis endococcina*** (Koerb.) Burnh., n. comb. This is often associated with the species on trunks of trees: and distinguished by being saffron colored within. (*Physcia obscura endococcina* (Koerb.) Th. Fr.).



251. *Physcia pulverulenta* (Schreb.) Nyl. E. Galway on ash trunks (Burt); Black Creek, north part of town of Salem (Dobbin); Vaughns on trunks of *Juglans cinerea*, *Betula lenta*, *Ulmus americana*, and *Acer saccharum*; Crescent on rocks.
252. *Physcia pulverulenta leucoleiptes* Tuck. Shushan on elm, May 28, 1906 (Dobbin) and on trees, bog north of Clarks Pond, Sept. 11, 1909, determined by Dr. Riddle. On rocks and *Juglans cinerea* at Vaughns; determined by Mr. Merrill.
253. *Physcia pulverulenta leucoleiptes* Tuck. The forma *argyphaeoides* Harm., on calcareous rocks at Vaughns, not uncommon; determined by Mr. Merrill.
254. *Physcia pulverulenta muscigena* (Ach.) Nyl. Vaughns on mossy rock, Aug. 20, 1908 (Mrs. R. C. Burnham), determined by Mr. Merrill.
255. *Physcia setosa* (Ach.) Nyl. E. Galway on maple trunks (Burt); Shushan on mossy trunks, May 14, 1906 (Dobbin); Crescent on rocks, May 30, 1906.
256. *Physcia stellaris* (L.) Nyl. On trunks of frondose trees and rocks; abundant. Collected at Hulets Lg. on *Juniperus communis* v. *depressa*, May 29, 1907.
257. *Physcia stellaris aipolia* (Ach.) Nyl. Dresden (Peck); E. Galway on maple trunks and rocks (Burt); woods east of Tripoli schoolhouse on quartz outcrops in limestone rock, May 25, 1913. Vaughns on bark of *Carya ovata*, Sept. 25, 1913, determined by Mr. Merrill who says "the variety *aipolia* is with difficulty separable from the species, and your specimens are intermediate."
258. *Physcia stellaris cercidia* (Ach.) Th. Fr. Trunk of *Populus tremuloides*, west of Wiggins iron mine, Nov. 22, 1915; determined by Mr. Merrill.
259. *Physcia tribacia* (Ach.) Nyl. On rocks and trunks, specially of frondose trees; not uncommon. Specimens have been determined by Dr. Eckfeldt, Mr. Merrill and Dr. Riddle.
260. *Anaptychia hypoleuca* (Ach.) Wainio. On trunks of frondose trees. Shushan (Dobbin), reported in N. Y. State Mus. Bull. 122: 24. 1908, Vaughns and vicinity. (*Physcia hypoleuca* (Ach.) Tuck.).
261. *Anaptychia speciosa* (Wulf.) Wainio. On mossy rocks and stonewalls and trunks of frondose trees; rather frequent. Northwest Hartford; southern W. Fort Ann; about Tripoli; Vaughns; Shushan; Crescent. Specimens have been determined by Dr. Eckfeldt, Dr. Fink, Mr. Merrill, and the late Dr. Riddle.

#### ABNORMAL LICHEN STRATUM

262. *Amphiloma lanuginosa* (Ach.) Nyl. Usually on calcareous rocks; not uncommon. Occasionally occurring on trunks of trees. Specimens

have been determined by Dr. Eckfeldt and Mr. Merrill. (*Pannaria lanuginosa* (Ach.) Koerb.).

SPECIES IMPERFECTLY KNOWN OR EXCLUDED

263. *Arthopyrenia punctiformis* (Pers.) Arn. E. Galway on trunk of *Acer rubrum* (Burt). This was marked doubtful in Dr. Burt's herbarium. (*Pyrenula punctiformis* (Pers.) Hepp).
264. *Caliciopsis pinea* Pk. Charlton on bark of *Pinus Strobus* (Peck) N. Y. State Mus. Rep. 33: 32. pl. 2 + f. 11-15. 1880. According to Dr. Peck this was a fungus: but it is distributed among the lichens at the New York Botanical Garden. On bark of *Pinus Strobus*, west of Tripoli schoolhouse, old plants, Feb. 2, 1916; determined by Prof John Dearnsey.
265. *Cladonia decorticata* (Flk.) Spreng. Gansevoort (Peck). This is undoubtedly an error as this species is known from the White Mountains, N. H. It has been collected on Mt. Marcy in the Adirondacks, N. Y. State Mus. Bull. 25: 647. 1899. The Gansevoort plants may be referable to some form of *Cladonia pyxidata* (L.) Hoffm.
266. *Cladonia sobolescens* Nyl. Thin soil covering rocks at Dresden Station (Peck), N. Y. State Mus. Rep. 25: 647. 1898.
267. *Cladonia symphyocarpa* Fr. Including the var. *epiphylla* (Ach.) Nyl. Thin rocky soil, northern Washington county, determined by Dr. Eckfeldt; also Gansevoort (Peck). These plants should undoubtedly be referred to *Cladonia subcariosa* Nyl. and *C. cariosa cribosa* (Wallr.) Wainio.
268. **Placynthium Petersii** (Tuck.) Burnh., n. comb. "Rocks" and on stones, river bank below the falls, Glens Falls (H. Willey), N. Y. State Mus. Rep. 26: 49. 1874. Mr. Willey in N. Y. State Mus. Rep. 28: 85. 1878 says, "the specimen reported under this name . . . . . is not in good condition and therefore uncertain." (*Pannaria Petersii* Tuck.).
269. *Blastenia rupestris* (Scop.) Zahlbr. Specimens from calcareous rocks at Shushan (Dobbin) and at Vaughns, should probably be referred to *Caloplaca aurantiaca flavovirescens* (Wulf.) Burnh.
270. *Caloplaca cinnabarina* (Ach.) Zahlbr. Fort Edward (Howe), N. Y. State Cab. Rep. 22. 64. 1869. Specimens in Howe's herbarium collected in 1866 was labelled, "rare in swales near Troy." (*Placodium cinnabarium* (Ach.) Anzi).
271. *Caloplaca cirrochroa* (Ach.) Th. Fr. Huletts Lg. (Jelliffe). This species, which occurs on rocks, was not found in Jelliffe's herbarium: but given in a list of plants collected at Huletts Landing.

ADDENDA

In connection with the nomenclatorial changes published in this paper the following synonyms should be added to the entries under the numbers indicated: